THIRD-ORDER LEVELING SEA LEVEL DATUM OF 1929

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

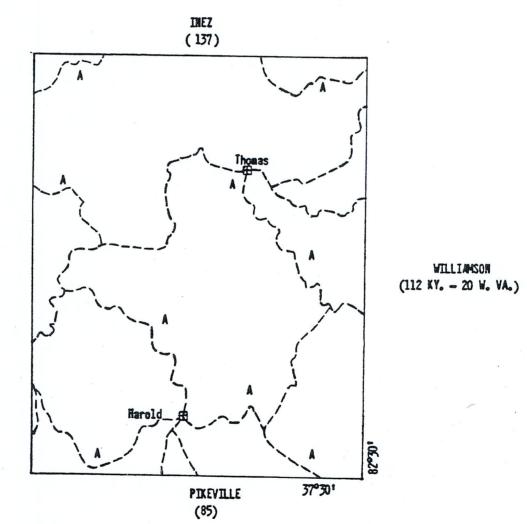
37-082-42
HAROLD QUADRANGLE
113 KENTUCKY
M3730-48230/15
BIAGRAM NJ 17-7
JENKINS

Floyd, Johnson, Martin and Pike Counties

Final adjustment of 1973

Edition of 3/25/74

PR: WSM/mjh



MGS (USCAGS) VERTICAL CONTROL DATA

A. Quadrangle 370824

PRESTONSBURG

(114)

INDEX OF PERMANENT MARKS

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635	3	697 KY	5
639	3	698 KY	5
640	3	701 KY	4
646	3	706 KY	5
653	3	717 KY	5
661	4	727 KY	į,
665	3	815 KY	4
667	3	895 KY	3
689	3	KY 637.991	3
698	4	KY 652.712	3
618 KY	4	KY 654.530	4
644 KY	4	KY 676.902	4
654 KY	4	KY 693.598	3
655 KY (654.392)	5	KY 706.216	3
655 KY (654.587)	5		, ,
660 KY	4		

HAROLD QUADRANGLE Bks A9094, A9195 and A9341	113 KENTUCKY		37 - 082- 1 2 3
ISOLATED BERCH MARKS (By S. R. Archer, 1912	= 1914; Books A9094, A9195 and A9341)		Feet
Allen, 3.3 mi SW. of; 200 ft E. of mouth of A Beaver Creek; S. end of loop to S.; in face (Reported destroyed, 1926)			639.152
Allen, 720 ft W. of Beaver Creek station; E. : No. 836 over mouth of Beaver Creek; in top of MKY 637.991" (Tied by MGS, 1952)	stone abutment of Chesapeake & Ohio R of S. and of bridge seat; standard ta	ailway bridge blet stamped	637.991
Woods, 0.2 mi N. of; N. end of siding; in top tablet stamped "640" (Reported not found,)		track; standard	639.522
Bull Creek station, 0.2 mi M. of; at concrete end of bridge seat, E. abutment; tablet sta		in tep of S.	634.322
Wagner station, 0.2 mi N. of; 0.2 mi S. of Mos in top of E. end of concrete culvert under a net found, 1953)			664.,900
Harold station, 1.3 mi SE. ef; 770 ft W. of Be Chesapeake & Ohio Railway stone arch culvers stamped 4653 (Reported not found, 1954)	t over mouth of Hurricane Creek; stan		652.862
Betsy Layne station, 780 ft W. of; on M. side railroad; standard tablet stamped *646** (Re		te culvert under	646.158
Ivel station, 150 ft M. of; on E. side of tra- concrete culvert under RR.; bronze tablet s			652.712
Marold station, 2.2 mi SW. of; 0.3 mi SE. of son E. side of and 12 ft above rd.; in face (Reported not found, 1953)			666.846
Printer, 0.2 mi N. of; 1.6 mi S. of Alphorett: W.; 150 ft N. of bend in rd. to N.; on W. si blacksmith shop; on N. side of entrance to tablet stamped M689" (Reported not found,	ide of rd.; at foot of low spur from coal opening; in face of sandstone ro	W.; opposite	688.428
Coal Rum, 4.21 mi NE. of; 750 ft N. of forks of Henry Stratton standing on E. side of rd outcrop; standard tablet stamped M895 KYM	• · · · · · · · · · · · · · · · · · · ·		895.284
John's Creek High Schools, 3.1 mi NW. of; at a Creek; S. concrete abutment; top of W. end; NGS, 1952)		A CONTRACTOR OF THE CONTRACTOR	706.216
Gulnare Post Office, 560 ft S. of; 250 ft N. & Co. store; 400 ft N. of rd. forks; on W. large rock; standard tablet stamped MKY 693	edge of rd.; on E. bank of Johns Cree		693.598

814.610

ISOLATED BENCH MARKS (Cont'd.) Feet McCombs post office. 0.5 mi SE. of: N. bank of Johns Creek, 400 ft W. of bend to W.; 250 ft E. of branch from NE.; 400 ft E. of residence of Amos Spear; 17 ft S. of rd.; at foot of black-ash tree 15 in. in diameter; in top of sandstone rock; standard tablet stamped "KY 676.902" 676.902 (Tied by MGS, 1952) Thomas Post Office: 235 ft SW. of post office: 400 ft E. of mouth of Brushy Fork; 89 ft E. of NE. abutment of bridge; at foot of buckeye tree 1 ft in diameter; on top of sandstone rock; 654.530 standard tablet stamped "KY 654.530" (Tied by NGS, 1952) German post office, 2.30 mi E. of: 350 ft N. of mouth of Mill Creek: 60 ft above water level of Johns Creek; at point of rd. crossing end of low spur from NE.; on N. side of, and 8 ft above rd.; in top of sandstone outcrop; standard tablet stamped 701 KY" (Reported not found, 1953) 700.881 German post office, 0.14 mi E. of; 650 ft E. of mouth of Buffalo Creek; 230 ft E. of point of spur and rd. forks; N. side of Johns Creek and hwy.; in face of sandstone rock; standard 659.818 tablet stamped "660 KY" (Reported not found, 1953) Edgar post office, 0.2 mi E. of; 700 ft ME. of mouth of Dicks Creek; 180 ft E. of rd. forks; opposite house standing on lower side of rd.; on N. side of rd.; in sandstone outcrop; standard 660.381 tablet stamped "661" (Reported not found, 1954) Brandy Keg post office, 1 mi N. of; just E. of mouth of Frogonery Branch and just below what is known as Ratliff's Ford; at steel hwy. bridge over Johns Creek; M. concrete abutment; in top of E. and 643.257 of bridge seat; standard tablet stamped "644 KY" (Reported not found, 1954) Dewey Post Office, 290 ft N. of rd. forks; 160 ft N. of branch from W.; 75 ft NE. of NE. corner of schoolhouse; 20 ft W. of rd.; E. side of W. road fenceline; in top of rock outcrop; standard 653.538 tablet stamped 7654 KYM Nero post office, 0.25 mi W. of, thence 0.62 mi SE.; 0.95 mi W. of mouth of Daniels Creek; S. side of rd. crossing low spur ridge from NE.; at bend in main rd. to N.; at foot of hill at back side of field in bottom of what is known as Widow Webbs's farm; 80 ft ME. of rd. forks; 150 ft E. of North East Coal Co.'s house; standing on W. side of rd. to M.; in projection of large sandstone rock; standard tablet stamped "618 KY" (Reported not found, 1953) 617.680 Eden (Inez), 12.80 mi S. of; on Wolf Creek at mouths of Little and Big branches; on E. side of, and 60 ft N. of end of low spur between branches; 150 ft NW. of mouth of Little Branch; on W. side of and 8 ft above; in top of sandstone outcrop; standard tablet stamped *698* (Reported 697.689 not found, 1953) Thomas post office, 4 mi NE. of; on Wolf Creek; 0.37 mi S. of Panther Fork; 0.30 mi S. of Andy McCoy's residence; on E. bank of Wolf Creek; W. side of rd.; in top of stone foundation NE. 726.680 corner of schoolhouse; standard tablet stamped "727 KY" Thomas post office, 2.0 mi NE. of; 0.62 mi N. of Wolf Gap; on Wolf Creek; at last forks of Wolf Creek; 160 ft S. of forks of creek; on E. side of S. fork and rd.; in face of rock

outcrop 5 ft above rd.; standard tablet stamped "815 KY" (Reported not found, 1953)

ISOLATED BENCH MARKS (Cont'd.)

Feet

Thomas post office, 235 ft SW. of; 400 ft E. of mouth of Brushy Fork; on S. bank; on E. side of rd. at ford; at foot of buckeye tree 1 ft in diameter; in top of sandstone rock; standard tablet stamped **655 KY**

654.392

Eden (Inez), 12.80 mi S. of; on Wolf Creek; at mouth of Big and Little branches; on E. side of and 60 ft M. of end of low spur between branches; 150 ft MW. of mouth of Little Branch; on W. side of, and 8 ft above; in top of sandstone outcrop; standard tablet stamped M698 KYM (Reported not found, 1953)

697.689

- Themas post effice, 5.93 mi SE. of; at point in rd. opposite mouth of Scott Branch; 0.30 mi S. of schoolhouse; fourthclass rd. to S. at; 40 ft M. of, and 12 ft above rd.; 10 ft ME. of small valuat and bushy buckeye trees; top of end of low spur ridge from ME.; in top of sandstone outcrop; standard tablet stamped "717 KY" (Reported not found, 1953)
- Thomas post office, 2.51 mi SE. of; 60 ft E. of house of B. Maynard (standing on N. side of rd.); 30 ft N. of, and 11 ft above rd.; on E. bank of small drain from N.; on S. side of sycamore tree 3 ft in diameter; on top of stone in roots; standard tablet stamped **697 KY** (Reported not found, 1953)

697.009

John post office, 1.91 mi SE. of; at mouth of Miller Creek; at steel hwy. bridge over Johns Creek; in top of W. end S. concrete abutment; standard tablet stamped *706 KY**

706.213

McClure post office, 4.44 mi SW. of; at mouth of Meathouse Creek; on W. bank of Wolf Creek; opposite schoolhouse at water's edge; in top of large sandstone rock; standard tablet stamped **655 KY** 654.587

HORIZONTAL CONTROL NORTH AMERICAN DATUM OF 1927

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

37-082-42
HAROLD QUADRANGLE
113 KENTUCKY
N3730-W8230/15
DIAGRAM NJ 17-7
JENKINS

Floyd, Johnson, Martin, and Pike Counties

Edition of 10/12/77

PRESTONSBURG

(114)

PR: CRV/rmm

Plane coordinates are based on Lambert projection, Kentucky, South Zone

Only the permanent marks are listed for control classified obsolete and are not shown on sketch

INEZ (137)

WILLIAMSON (112 KY.-20 W.VA.)

37°301

PIKEVILLE (85)

DISCLAIMER

We no longer attest to the validity of the positions listed for horizontal control established by transit traverse procedures. This control is now considered OBSOLETE and is included in this list for the purpose of identification only.

INDEX OF PERMANENT MARKS

MARK (USGS)	PAGE NO.
TT 20 TWC 1951 TT 21 TWC 1951 TT 22 TWC 1951 TT 23 TWC 1951 TT 24 TWC 1951 TT 26 TWC 1951 661.820 TT 27 TWC 1951 668.706 TT 59 TWC 1952	3 3 3 3 3 4
MGS	
Q 86 1935 650.186	3

MOITATE DESCRIPTION PLANE COORDINATES, FEET

LATITUDE 0 1 11 LONGTTUDE 0 1 11

The following positions are considered OBSOLETE. To be used only to locate permanent marks in the field.

By T. W. Cayce, 1951; Book AH 270

Prestonsburg, 2.8 mi SE. of post office, along U. S. Highway 23-460; at Lancer; 77 ft E. of centerline of hwy. at junction of State Highway 304; 2 ft SW. of powerline junction pole; on high bank in NE. corner of small orchard; in concrete post; standard tablet stamped "TT 20 TWC 1951" (Not found, 1975)

X = 2.873.612

Y = 500.118

37 40 07.06

82 43 52.78

Prestonsburg, 2.8 mi SE. of post office, along U. S. Highway 23—460, thence 0.8 mi NE. along State Highway 304, thence 1.7 mi SE. along dirt rd. to Corn Fork School; 57 ft S. of front entrance to school: 34 ft E. of centerline of rd. at culvert; 18 ft NE. of centerline of rd.; in concrete post; standard tablet stamped "TT 21 TWC 1951"

X = 2.882.484

Y = 503.415

37 40 36.82

82 42 01.17

Prestonsburg, 4.4 mi SE. of post office, along U. S. Highway 23-460; 140 ft NE. of NE. corner of Sugar Loaf Inn; 140 ft S. and 23 ft E. of centerline of hwy. at junction of driveway E.; in concrete post; standard tablet stamped "IT 22 TWC 1951" (Reported destroyed, 1975)

X = 2.879.449 Y = 497.410

37 39 38.45

82 42 41.30

Prestonsburg, 7.6 mi SE. of post office, along U. S. Highway 23-460; 2.0 mi NE. of Allen: 500 ft W. of Outside Inn: 24 ft S. and 21 ft W. of centerline of hwy. at junction of driveway S.; 3 ft NE. of powerline pole; in concrete post; standard tablet stamped "TT 23 TWC 1951" (Not found, 1975)

X = 2,879,788

Y = 486.442

37 37 49.95

82 42 41.47

Allen; 19 ft E. of E. end of Chesapeake and Ohio Railway Station; 11 ft S. of S. edge of station platform; 3 ft SE. of pole; in concrete post; NGS standard disk stamped "Q 86 1935 650.186"

X = 2.875.317 Y = 479.640

37 36 44.15

82 43 39.73

Allen, 2.3 mi S. of post office, along State Highway 80; 160 ft S. of centerline of hwy. at swinging bridge: 12 ft S. and 27 ft E. of junction of driveway NE.; in concrete post; standard tablet stamped "TT 24 TWC 1951"

X = 2.875.214 Y = 471.436

37 35 23.11

82 43 44.26

Martin, 0.9 mi SW. of post office, along State Highway 80, thence 1.3 mi SE. along State Highway 122; 26 ft E. of centerline of hwy.; 45 ft SW. of SW. corner of small grocery store; in concrete post; standard tablet stamked "IT 26 TWC 1951 661.820" (Not found, 1976)

X = 2.869.626

Y = 456,640

37 32 58.66

82 44 59.48

STATION

DESCRIPTION PLANE COORDINATES, FEET

LATITUDE 0 1 17

LONGITUDE 0 1 17

OBSOLETE MARKS (Cont'd.)

Martin, 0.9 mi S. of post office, along State Highway 80, thence 3.2 mi SE. along State Highway 122; at Salisbury; 77 ft NW. of RR. crossing; 36 ft W. of centerline of RR.; 33 ft E. of centerline of rd.; in concrete post; standard tablet stamped "TT 27 TWC 1951 668.706" (Not found, 1976)

X = 2,871,042 Y = 448,676

37 31 39.51

82 44 45.06

Pikeville, 1.8 mi NW. of high school, along U. S. Highway 23-460, thence 1.3 mi E. along Ratcliff Road to small brick-siding house; 24 ft N. and 24 ft W. of centerline of rd. at junction of driveway N.: 2 ft N. and 5 ft E. of SE. corner of yard fence; in concrete post; standard tablet stamped "TT 59 TWC 1952"

X = 2,939,550

Y = 440,890

37 30 00.19

82 30 38.42

Station: MAYNARD

County: Martin

State Kentucky 9

Observer: Ky . By Products Coal Year: 1929 Datum: 1927 N.A.D

Description: 1/21/54 jmr

Co.

Martin County, Ky. - On a high knob locally known as Spring Knob, on ridge between Meathouse Fork and Maynard Fork (both waters of Wolf Creek)

Station Mark: - Houston Triangulation Survey tablet cemented in a 6" x 8" x 26" stone set on end flush with surface.

Reference Mark No. 1: Nail in root of 12-in. hickory tree, 31.89 ft. from station in true azimuth 57°10°

Reference Mark No. 2: Nail 4 ft. above ground in 14-in. hickory tree, 110.70 ft. from station in true azimuth 328°52:.

Kentucky Lambert Projection (South Zone)

X = 2932478

Y = 511659

[Latitude 3	7 41	41.867	Lo	ongitude 82 3	36.164]	
To Station—		Azimuth	Bac	k Azimuth	Distanc	e
	٥	,	 •	<i>t</i>	Feet	Miles
Cow	80	08 57.0	260 0	7 34.5	11,013.14	
Panther	108	32 49.6	288 29	9 49.8	24,919.72	
Big Andy	152	25 46.3	332 2	4 43.8	17,754.1	
Hurricane (USGS & USC&GS)	196	04 52.8	16 06	5 05.9	34,599.30	
Flag (USGS)	323	12 30.4	143 13	3 46.4	16,705.03	
			z			_
				,		
			-	*		

Station: MCGEE

County: Martin

State:

Observer: Ky. By Products Coal Year: 1929 Datum: Prelim. 1927 N.A.D.

Description:

Coa

1/21/54 jmr

PRELIMINARY

Martin County, Ky. - On a knob on ridge between Wolf Creek and McGee Branch. Station may be reached by going up a spur opposite the site of former residence of Ben Hardin on Wolf Creek.

Station Mark: - Houston Triangulation Survey tablet cemented in a $6" \times 8" \times 27"$ stone set on end flush with the surface.

Reference Mark No. 1: Nail in hollow 28-in. chestnut stump, 11.45 ft. from station in true azimuth 38°05'

Reference Mark No. 2: Cross mark in large flat rock on ridge, 167.00 ft. from station in true azimuth 57°37°

Reference Mark No. 3: Nail in base of leaning double chestnut tree, 127.80 ft. from station in true azimuth 283°22'

Kentucky Lambert Projection (South Zone)

X = 2931892

Y = 525682

(Latitude	37 44 00.632	Longitude 82	31 37.498]
To Station—	Azimuth	Back Azimuth	Distance
	0 , #	· , , , , , , , , , , , , , , , , , , ,	Teet Miles
Goble	107 14 08.0	287 11 04.7	25,180.8
Hickory	113 14 50.4	293 12 45.3	17,860.1
Walnut	184 36 31.8	4 36 38.4	10,915.2
			,
		. •	-
·			

113 HAROLD

Station: PANTHER

County: Martin

State Kentucky

Description:

Observer: Ky. By Products Coal Year: 1929 Datum: Coa

1927 N.A.D.

1/21/54 jmr

Martin County, Ky. - On a knob on the dividing ridge between Panther Fork of Wolf Creek and Middle Fork of Rockcastle Creek. Station may be reached by following ridge east about 10001 from Sand Gap.

Station Mark: - Houston Triangulation Survey tablet cemented in a 6" x 6" x 26" stone set on end flush with ground.

Reference Mark No. 1: Cross mark in head of 20d nail in center of 13-in. pine stump, 30.65 ft. from station in true azimuth 49°19°

Reference Mark No. 2: Cross mark in head of 10d nail in root of 17-in. black oak tree (marked as a corner), 11.03 ft. from station in true azimuth 112°27

Reference Mark No. 3: Cross mark in boulder above base of two black pines 20 ft. W. of top of ridge, 71.15 ft. from station in true azimuth 139°30:

Kentucky Lambert Projection (South Zone) X = 2908597Y = 518774

[Latitude 3	37 43 00.130	Longitude82 36	30.180
To Station—	Azimuth	Back Azimuth	Distance
	0 / #	0 / 1/	Karak Miles Feet
Goble	177 42 21.9	357 42 17.8	13,580.28
Hurricane (USGS & USC&GS)	232 37 41.6	52 41 54.7	41,760.21
Maynard	288 29 49.8	108 32 49.6	24,919.7
Cow	307 28 25.3	127 30 02.6	16,107.24

Station: PANTHER

County: Martin

State Kentucky

Observer: Ky. By Products Coal Year: 1929 Datum: Co.

1927 N.A.D

Description:

1/21/54 jmr

Tottony Martin County, Ky. - On a knob on the dividing ridge between Panther Fork of Wolf Creek and Middle Fork of Rockcastle Creek. Station may be reached by following ridge east about 1000' from Sand Gap.

Station Mark: - Houston Triangulation Survey tablet cemented in a 6" x 6" x 26" stone set on end flush with ground.

Reference Mark No. 1: Cross mark in head of 20d nail in center of 13-in. pine stump, 30.65 ft. from station in true azimuth 49°19:

Reference Mark No. 2: Cross mark in head of 10d nail in root of 17-in. black oak tree (marked as a corner), 11.03 ft. from station in true azimuth 112°27'

Reference Mark No. 3: Cross mark in boulder above base of two black pines 20 ft. W. of top of ridge, 71.15 ft. from station in true azimuth 139°30'.

Kentucky Lambert Projection (South Zone)

X = 2908597

Y = 518774

-:4..4-82 36 30.180

	[Latitude 3	17 43	00.130			Long	gitude ⁰²	0 30.100	
To Stat	ion—		Azimuth		E	Back A	zimuth	Distance	
- Allegan and American Control of the Control of th		0	,	W	0	,	R	Feet	Miles
Goble		177	42 21.9		357	42	17.8	13,580.28	
Hurricane	(USGS & USC&GS)	232	37 41.6		52	41	54.7	41,760.21	
Maynard		288	29 49.8		108	32	49.6	24,919.7	
Cow		307	28 25.3		127	30	02.6	16,107.24	
•									
		2			5				<u>.</u>
a a									
			,		,				
,									

1113 Station: BIG ANDY

County: Martin

9.113 State: Kentucky

PRELIMINARY

Observer: Ky.By Products Coal Year:

Description: jmr

Co.

Datum: Prelim. 1927 N.A.D.

Martin County, Ky. - On a high knob on ridge between Big Andy Branch and Wolf Creek. Station may be reached by No. 2011 going up spur from mouth of Big Andy Branch.

Station Mark: - Houston Triangulation Survey tablet cemented in a 6" x 7" x 25" stone set on end flush with ground.

Signal: - Quadripod set on center.

Reference Mark No. 1: Cross mark in head of 10d nail in root of 7-in. locust tree 19.00 ft. from station in true azimuth 6°351

Reference Mark No. 2: Cross mark in head of 10d nail in root of 12-in. hickory tree 108.85 ft. from station in true azimuth 29°02

Kentucky Lambert Projection (South Zone)

X = 2923729

Y = 527107

	37 44 17.450	Longitude 82	33 18.462 _]
To Station—	Azimuth	Back Azimuth	Distance
Goble , Hickory Walnut	109 50 53.0 122 46 37.3 224 23 14.5	289 48 51.4 302 45 34.0 44 24 23.0	Feet 16,947.6 9,872.6 12,845.6
Maynard	332 24 43.8	152 25 46.3	17,754.1
Form 9-107a			

9.113

Station: CCW

County: Martin

State: Kentucky

Observer: Ky.By Products Coal Year: 1929 Datum:

Description: 1/21/54 jmr Co.

Martin County, Ky. - On ridge between last forks of Cow Fork of Wolf Creek. Station may be reached by following ridge west from Kittennarrow Gap.

Station Mark: - Houston Triangulation Survey tablet cemented in solid rock.

Reference Mark No. 1: Cross mark cut in solid rock on top of ridge, 35.72 ft. from station in true azimuth 43°34°

Reference Mark No. 2: Cross mark cut in large boulder on W. side of ridge, 36.04 ft. from station in true azimuth 119°331

Reference Mark No. 3: 8d nail in base of 20-in. chestnut tree, 205.69 ft. from station in true azimuth 202°11'

Kentucky Lambert Projection (South Zone) X = 2921698Y = 509405

Il atitude 37 lin 22

(220,000)	37 41 23.217	Longitude 82 3	3 51.152
To Station—	Azimuth	Back Azimuth	Distance
	0 / #	0 / 1/	KAXMAAK Miles Feet
Panther	127 30 02.6	307 28 25.3	16,107.24
Maynard	260 07 34.5	80 08 57.0	11,013.14
Flag (U.S.G.S.)	298 50 11.1	118 52 49.7	23,812.92
			- ,





Station: Brandy Keg Observer: E. T. McNair Harold 'n 113 Year: 1909 Base: County: U.S.Standard. h lo yd () (4 State: Ky 13.496, p.113

ad krap between Sandy Alver and Johns Creek, ap between Frandy Keg and Lauders breek. The head of Brancy Keg Creek and ascending then following same to west.

Description: On commany ing cleared kand about o amile west of rap the fit can be reached by going to he to the station mark: An aluminum edge of knowl.

Station mark: An aluminum edge of knowl. No. 1 is an eak to distant of of distant 50.4 tree 20 inches in diameter setting feet true azimuth 2900 43 57 No. 2 43 feet true azimuth 303 57 tue azimuth 1050

37 26.05 1927 N.A. by Graph 8/35 g. 64 Longitude 82 \$7.04 2.40 57.23]

	- ' '	Sk. p-mining	Reported Dest 1978 Tup of mitn has been removed by ship-mining	Reported Dest 1 Tup of mitn has
11 095 11 200 11	Log. Distance Meters 3. 0209275 36 4. 1585556 16 4. 3185996 278 4. 227555 03 4. 0452148 159	Back Azimuth 327 25 59-25 51 358 293467-29 24 53 13 59-57 41 95 57 46-59 42 146 11 66-44-77	Azimuth 147 27 00.20 20 178 30 00.71 34 233 06 67.50 \$5 275 50 53.13 43 328 06 40.71 52	592Porter 592Porter 593Standifer 594 Hurricane 595Flag

